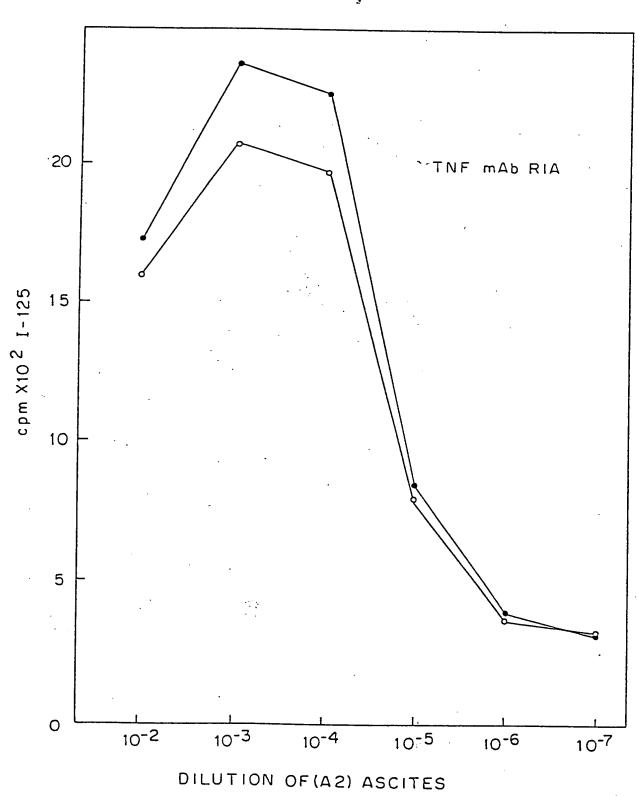
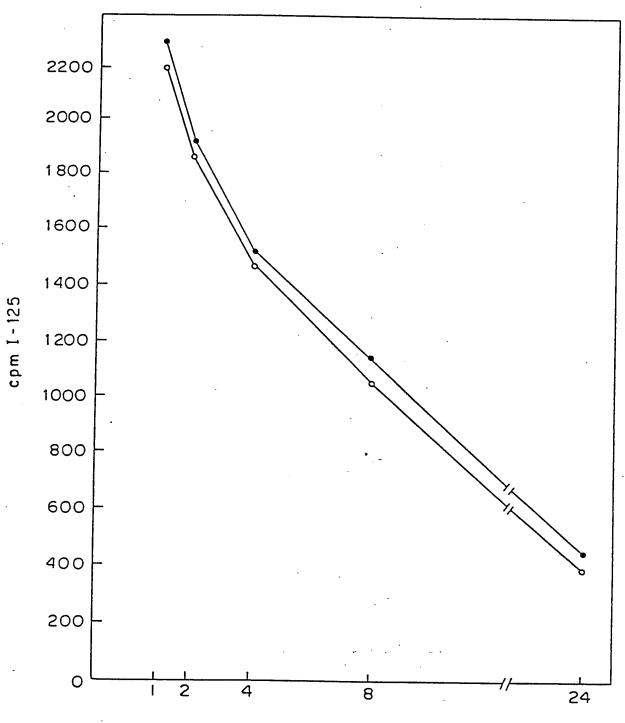
FIG. 1

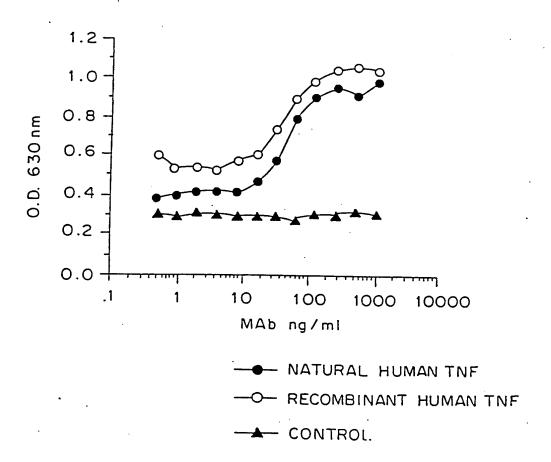


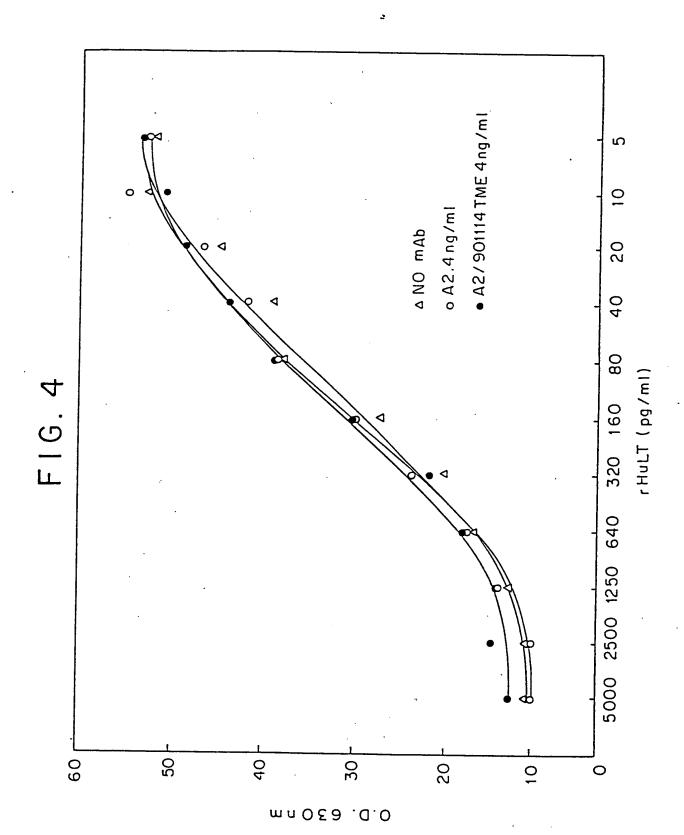
F | G<sub>2</sub>. 2

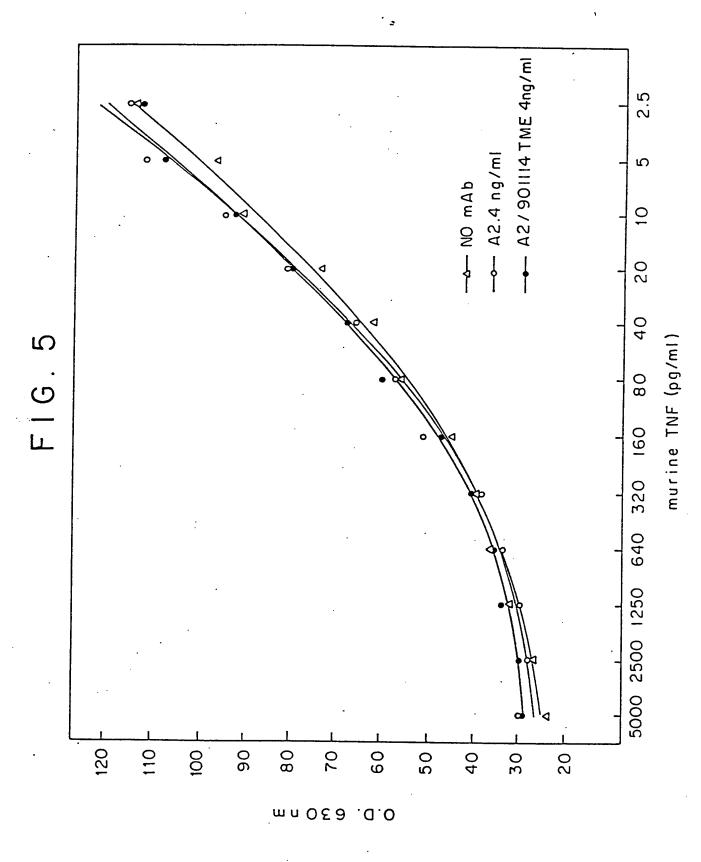


INCUBATION OF THE THE AT 60°C (hr)

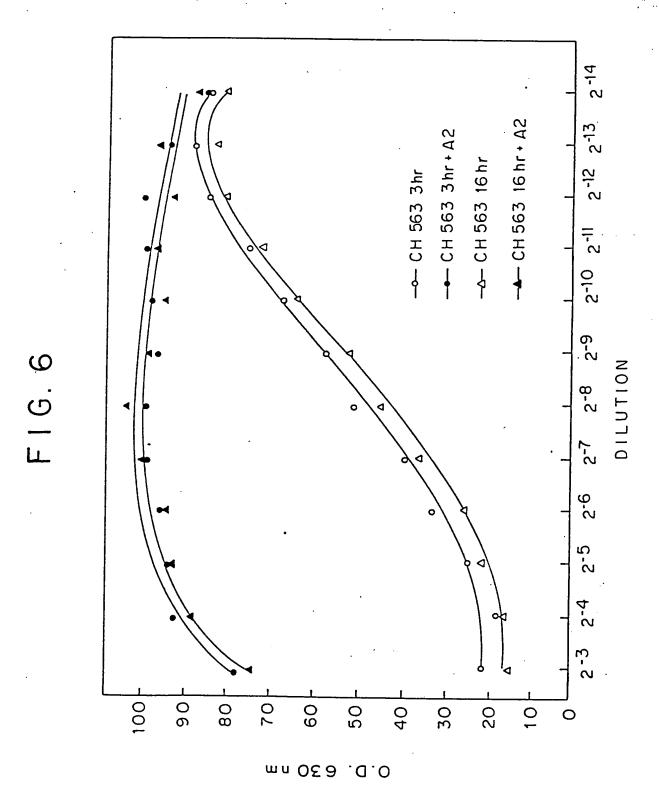
FIG. 3

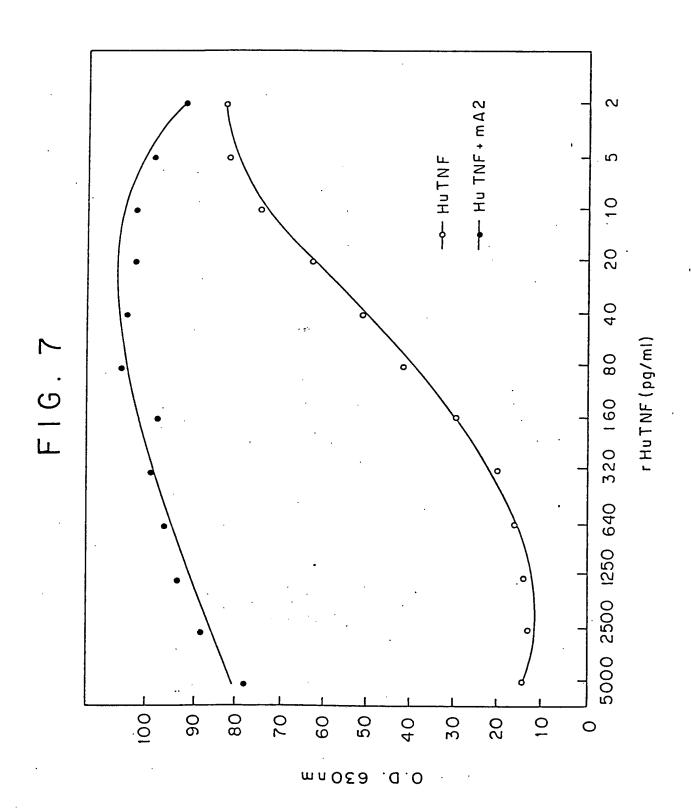






1 5.





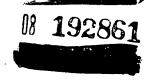


FIG.38a

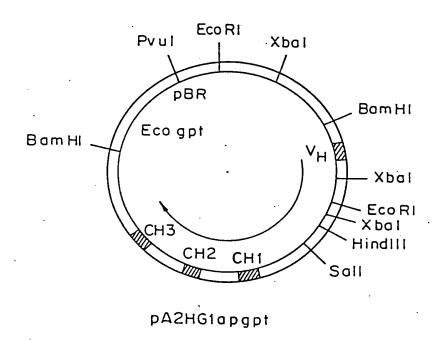
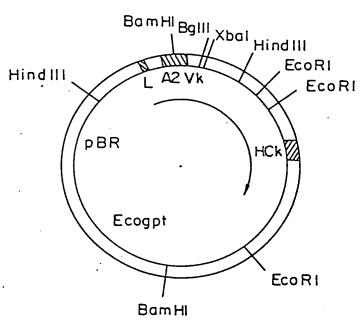


FIG.8b



pA2HuKapgpt

FIG.,9a

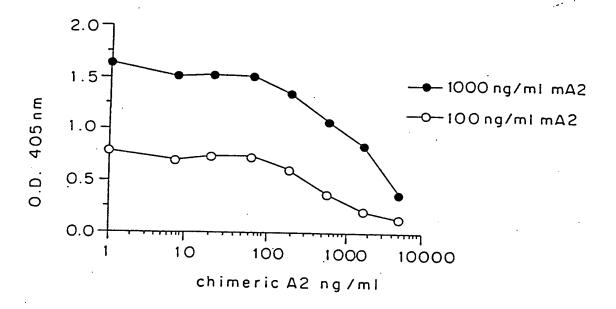
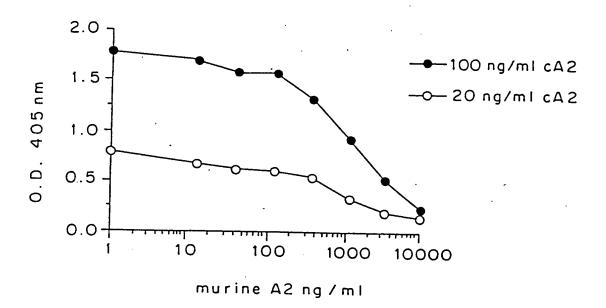


FIG. 9b



F I G.. 10 a

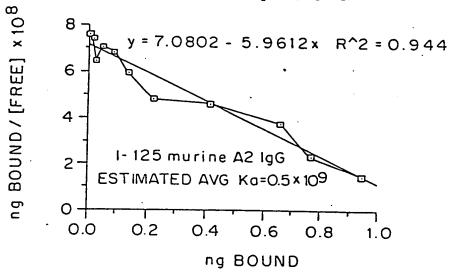
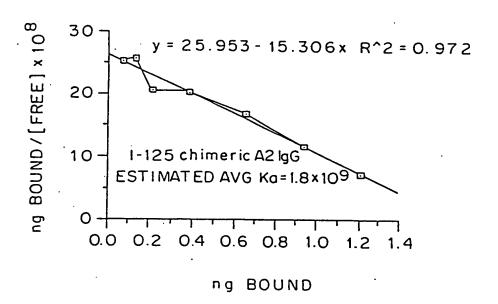


FIG. 10b



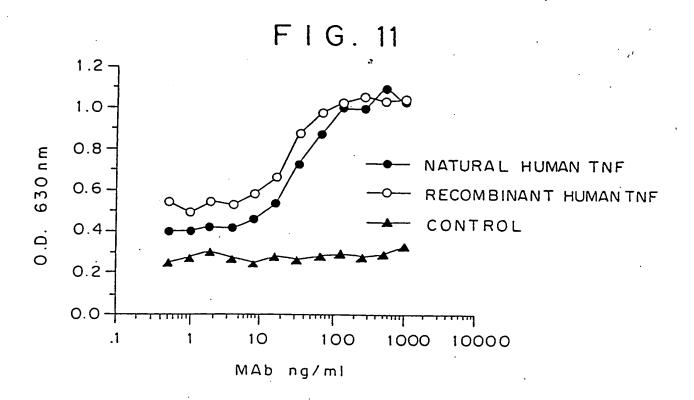
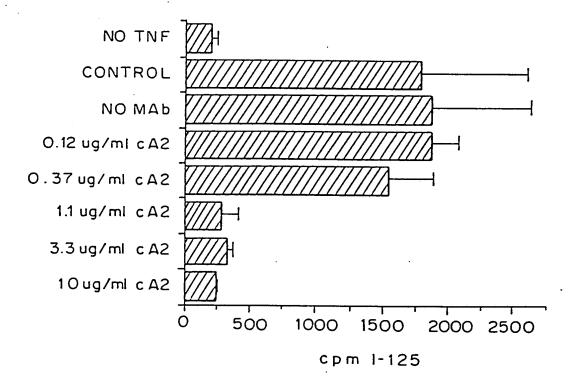


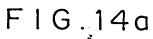
FIG. 12

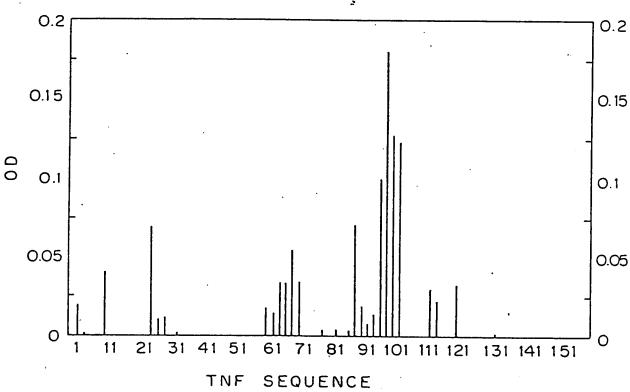


# F16.13

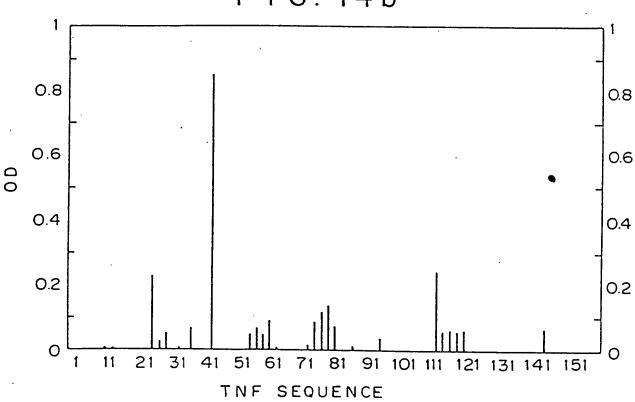
GlyPro Ser Pro Thr Ile Leu Ile Asn Arg Pro Asp Tyr Val Ala Asn Tyr Ser Asn Arg Ala Asn Ala Leu Leu Ala His Glu Gly Leu Tyr Leu Ile Tyr Glu Pro Ile Lys Thr 90 Lys Val Asn Leu Leu Ser Ala Ile Val Thr His Val Leu Leu Ala His Glu Ala Pro Trp Pro Val Asp Arg Leu Ser Ser Glu Ala Lys Lys Ser Pro Asp Val Pro 130 70 Ser Leu G1yLeu Arg Asp Asn Gln Leu Val Leu Phe Lys Gly Gln Gly Cys Gln Thr Thr Pro Glu Gly Ala Thr Pro Glu Gly Gln Leu Gln Trp Glu Lys Tyr Ser Arg Ser Gly Val Phe Gln Leu Ala Val Ser Glu Ser Ile Gln Arg Glu Gln Ala Arg Val 1 Val Gln 101 Cys Val Ser 121 Gly 61

Leu Ile Ile Ala Tyr Phe Gly 150 Val Gln  $_{
m G1y}$ Leu Asp Phe Ala Glu Ser 141 Tyr :





F I G. 14b



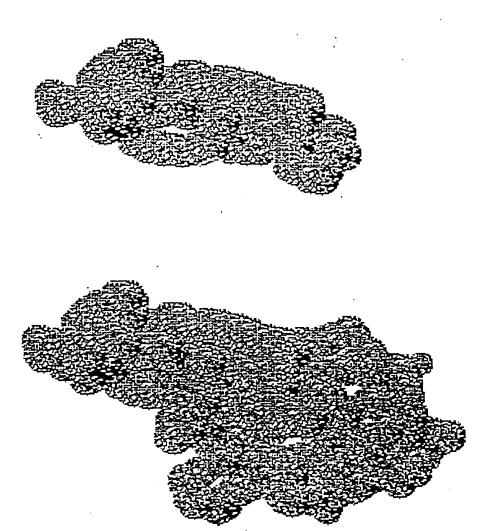
# F16.15

| Pro   | Gly   | Ser   | Ile                                     |
|---|---|---|---|
| 10<br>Asp Lys Pro Val Ala His Val Val Ala Asn Pro | 30<br>Asn Arg Arg Ala Asn Ala Leu Leu Ala Asn Gly | Leu Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser | Ser Thr His Val Leu Leu Thr His Thr Ile |
| Ala   | Ala   | Ile   | His                                     |
| Val   | Leu   | Leu   | Thr                                     |
| Val   | Leu   | TYr   | Leu                                     |
| His   | Ala   | Leu   | Leu                                     |
| Ala   | Asn   | Gly   | Val                                     |
| Val   | Ala   | Glu   | His                                     |
| Pro   | Arg   | Ser   | Thr                                     |
| Lys   | Arg   | Pro   | Ser                                     |
| 10<br>Asp   | 30<br>Asn   | 50<br>Val   | 70<br>Pro                               |
| ro Ser  | Trp Leu   | Val   | 70<br>Gly Cys Pro                       |
| Pro   | Trp   | Leu   | Gly                                     |
| Thr   | Gln   | Gln   |   |
| Ser Arg Thr P                                     | Leu   | Asn   | Gly                                     |
| Ser   | Gln   | dsv   | tys                                     |
| Ser   | G1¥   | Arg   | Phe                                     |
| Ser   | Ala Glu Gly Gln Leu                               | Leu   | Val Leu Phe Lys Gly Gln                 |
| Arg   | Ala   | Glu Leu Arg asp Asn Gln                             | Val                                     |
| 1<br>Val Arg                                      | 21<br>Gln   | 41<br>Val   | 61<br>Gln                               |
|   |   |   |   |

| Pro          | Leu           |
|--------------|---------------|
| Ser          | Tyr           |
| Lys          | Ile           |
| Ile          | Pro           |
| Ala          | Glu           |
| Ser          | Tyr           |
| Leu          | Trp           |
| Leu          | Pro           |
| Asn          | Lys           |
| Val          | Ala           |
| 90<br>Lys    | 110<br>Glu    |
| Thr          | Ala           |
| Gln          | Gly           |
| TYF          | Glu           |
| Ser          | 0<br>14<br>0. |
| Val          | Thr           |
| Ala          | glu Thr       |
| g Ile Ala Va | Arg           |
| Arg          | Gln           |
| 81<br>Ser    | 101<br>Cys (  |
|              |               |

|     | Asp  |
|-----|------|
|     | Pro  |
|     | Arg  |
|     | Asn  |
|     | Ile  |
|     | Glu  |
|     | Ala  |
|     | Ser  |
|     | Leu  |
|     | Arg  |
| 130 | Asp  |
|     | G1y  |
|     | Lys  |
|     | GI u |
|     | Leu  |
|     | Gln  |
|     | Phe  |
|     | Val  |
|     | Gly  |
| 121 | Gly  |
|     |      |

Tyr Leu Asp Phe Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu



#### Figure 17A

#### CA2 LIGHT CHAIN VARIABLE REGION SEQUENCE

GACATCTTGGTGACTCAGTCTCCAGCCATCCTGTCTGTGAGTCCAGGAGAAAGAGTCAGT AspIleLeuLeuThrGlnSerProAlaIleLeuSerValSerProGlyGluArgValSer

TTGTCGTGCAGGGCCAGTCAGTTCGTTGGCTCAAGCATCCACTGGTATCAGCAAAGAACA PheSerCysArgAlaSerGlnPheValGlySerSerIleHisTrpTyrGlnGlnArgThr

AATGGTTGTCGAAGGCTTCTCATAAAGTATGCTTCTGAGTCTATGTCTGGGATCCCTTCC AsnGlySerProArgLeuLeuIleLysTyrAlaSerGluSerMetSerGlyIleProSer

AGGTTTAGTGGCAGTGGATCAGGGACAGATTTTACTCTTAGCATCAACACTGTGGAGTGT ArgPheSerGlySerGlySerGlyThrAspPheThrLeuSerIleAsnThrValGluSer

 ${\tt GAAGATATTGCAGATTATTACTGTCA}{AGAAAAGTCATAGCTGCCCATTCACGTTCGCCTCC}\\ {\tt GluAspIleAlaAspTyrTyrCysGlnGlnSerHisSerTrpProPheThrPheGlySer}\\$ 

GGGACAAATTTGGAAGTAAAA GlyThrAsnLeuGluValLys GAAGTGAAGCTTGAGGAGTCTGCAGGAGCCTTGCTGCAACCTGGAGGATCCATCAAACTG GluValLysLauGluGluSerGlyGlyGlyLauValGlnProGlyGlySerHecLysLau

TCCTGTGTTGCCTCTGGATTCATTTTCAGTAACCACTGGATGAACTGGGTCCGCCAGTCT SerCysValalaSerGlyPhellePheSerAsnHisTrpHecAsnTrpVelArgGlnSer

CCAGAGAAGGGGCTTGAGTGGGTTGCTGAAATTAGATCAAAATCTATTAATTCTGGAACA ProGluLysGlyLeuGluTrpValAlaGluIleArgSerLysSerIleAsnSerAlaThr

CATTATGCGGAGTCTGTGAAAGGGAGGTTCACCATCTCAAGAGATGATTCCAAAAGTGCT HisTyrAlaGluSerValLysGlyArgPheThrIleSerArgAspAspSerLysSerAla

GTGTACCTGCAAATGACCGACTTAAGAACTGAAGACAGTGGCGTTTATTACTGTTCCAGG ValTyrLauGlnMgcThrAspLauArgThrCluAspThrGlyValTyrTyrCysSerArg

AATTACTACGGTAGTACCTACGAGTACTGGGGGGGAAGGGACCACTGTCACAGTGTCCC AsnIyrTyrGlySerThrTyrAspTyrTrpGlyGlmGlyThrThrLeuThrVelSer

Figure 17B

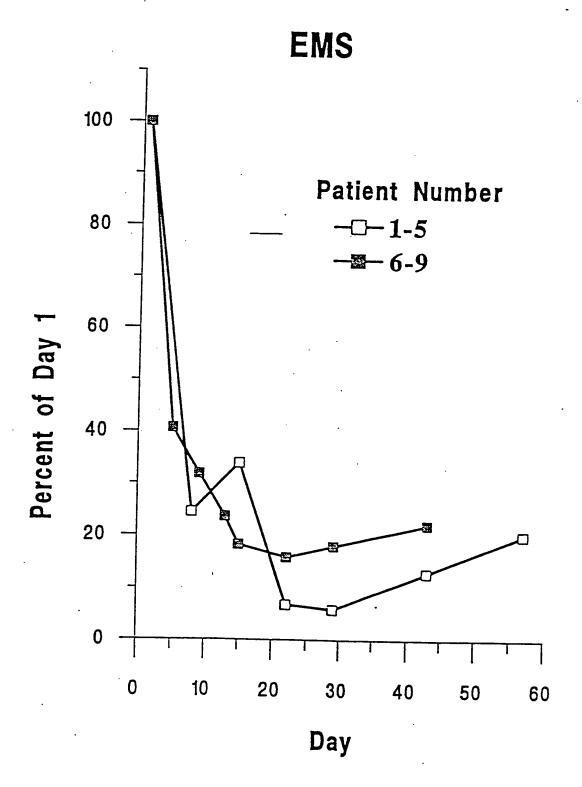
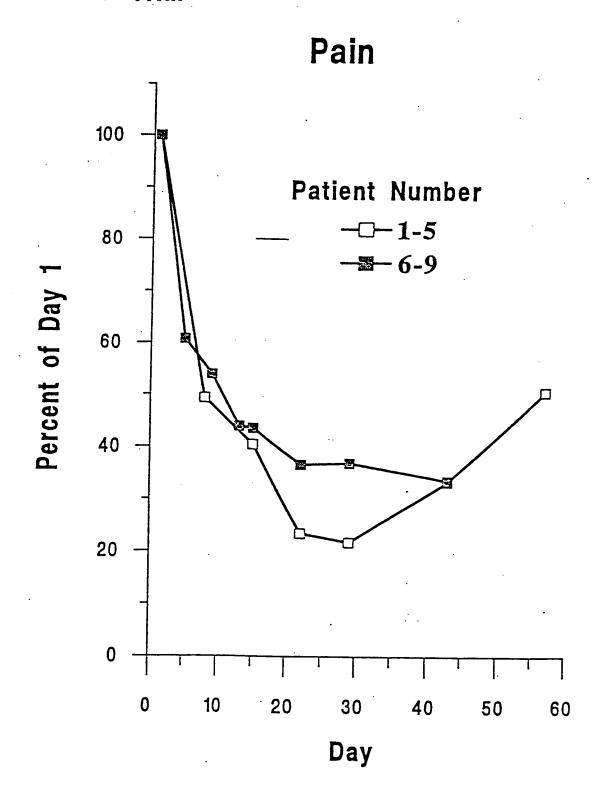
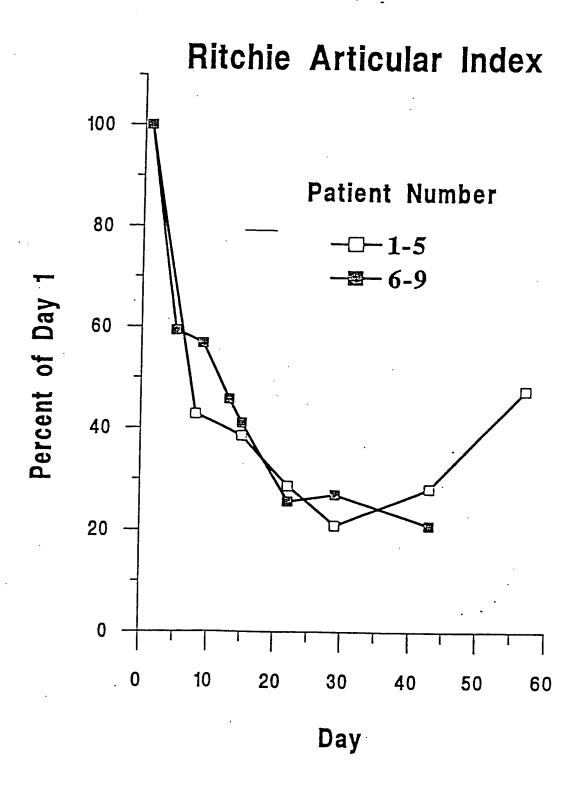


FIG. IS





F16.19



F16. 20

### Swollen Joints

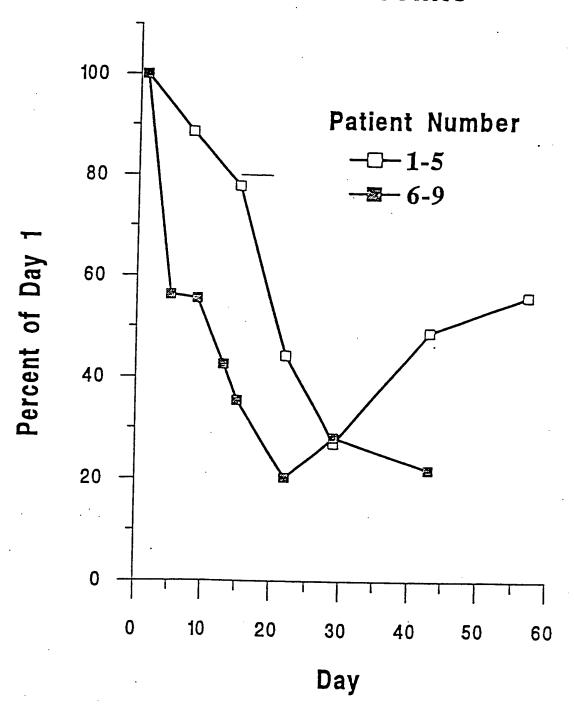
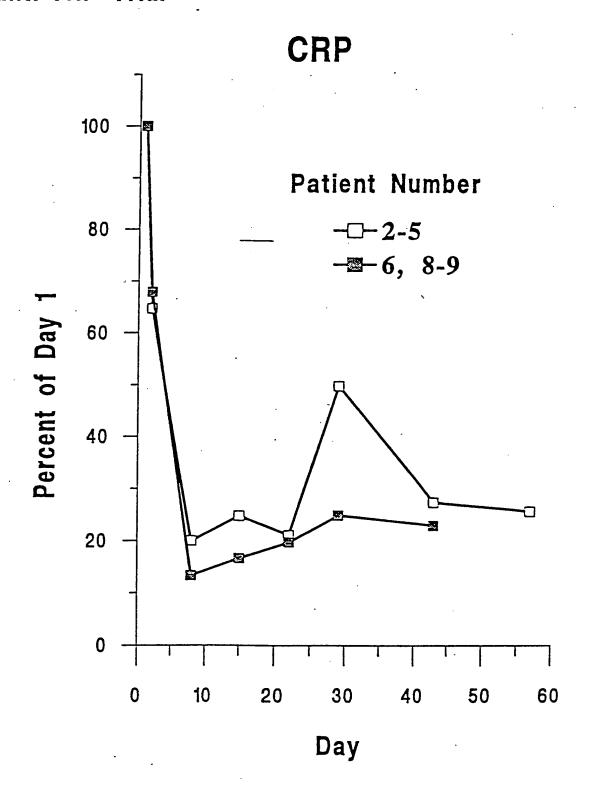
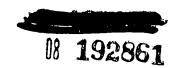
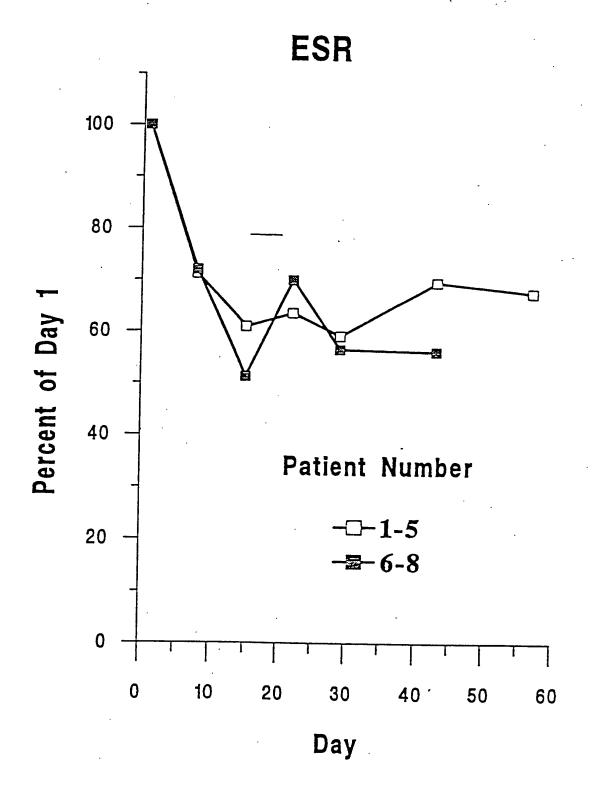


FIG 21



F16. 22





F16 23

anti-TNF Trial

## Index of Disease Activity

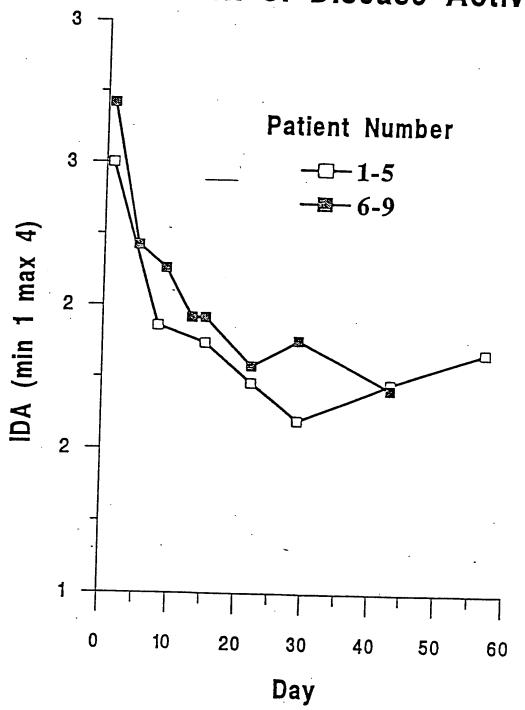
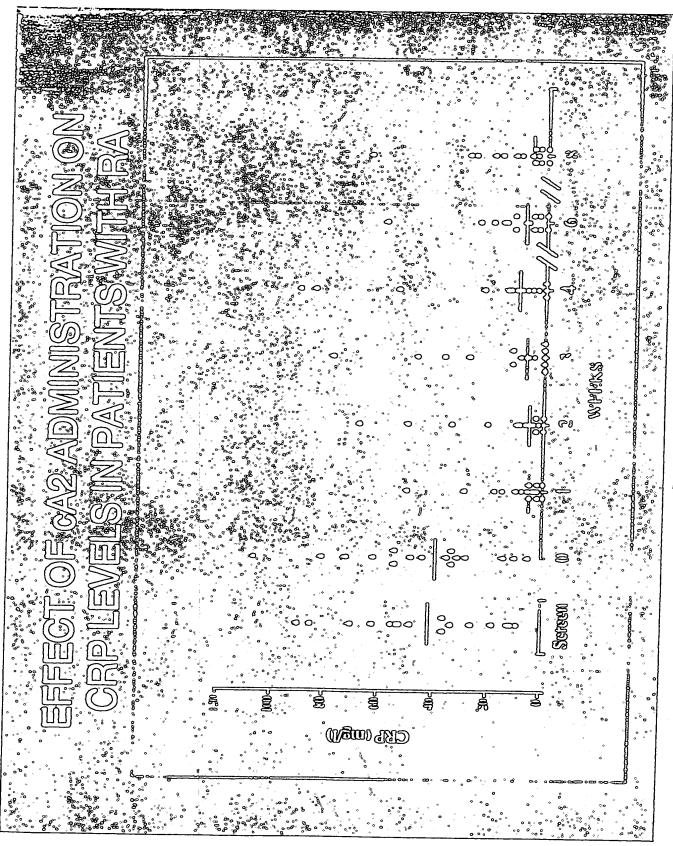


FIG 24

FIGURE 25





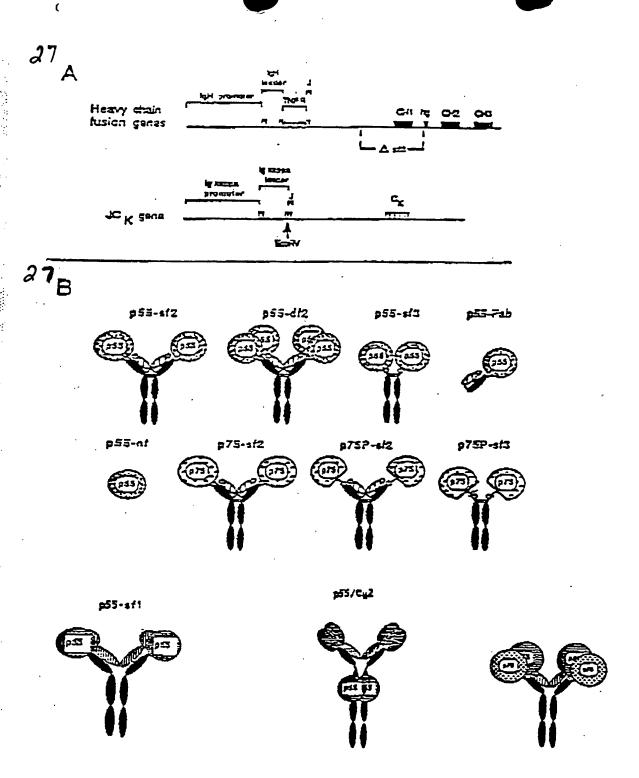
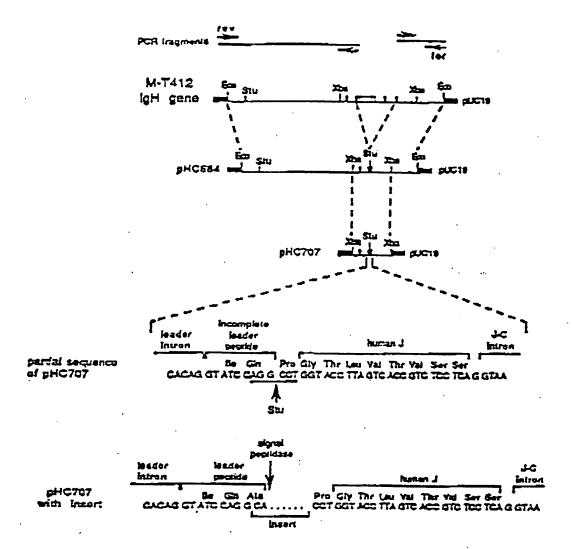
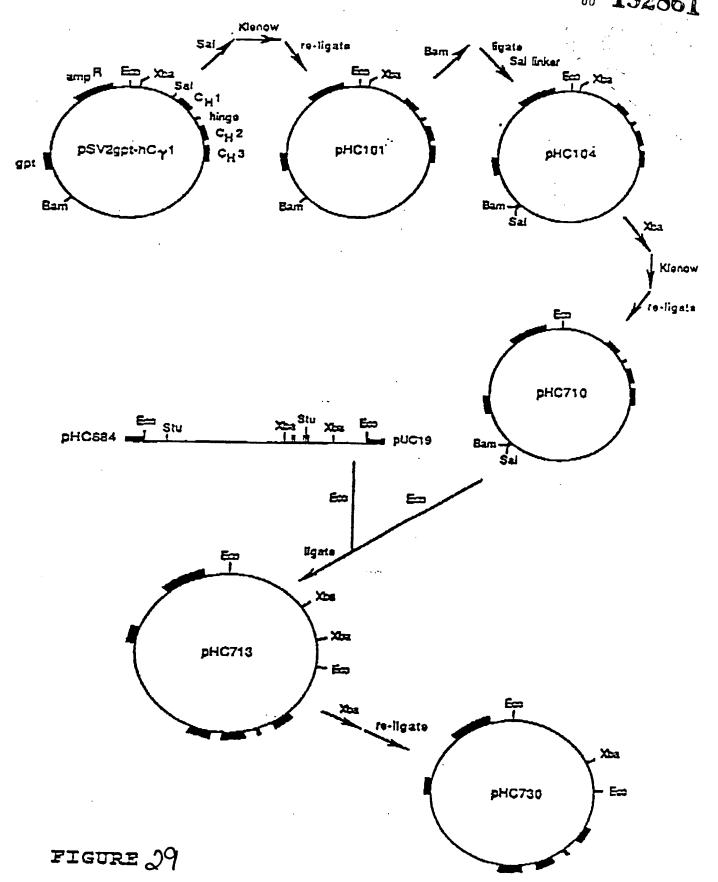


FIGURE 27 A-B



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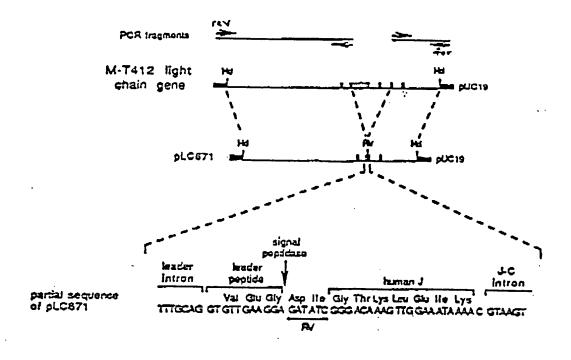


FIGURE 30

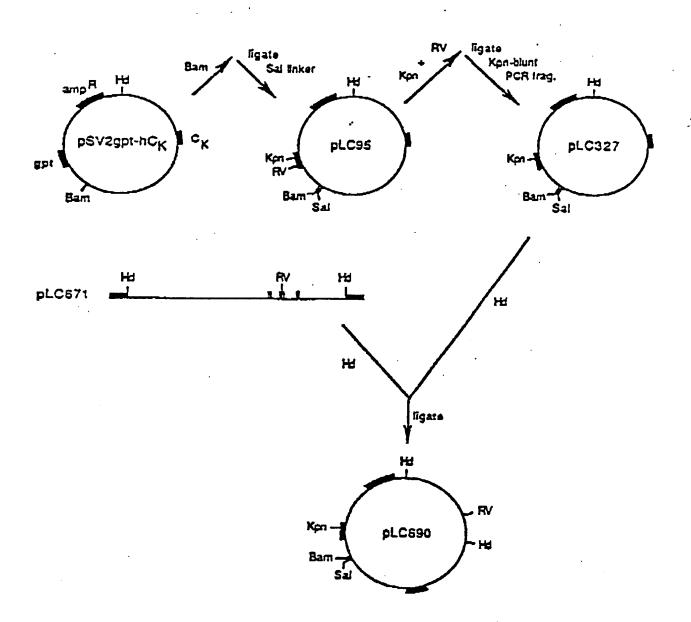
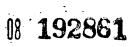
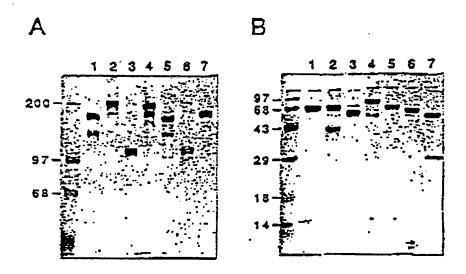


FIGURE 31





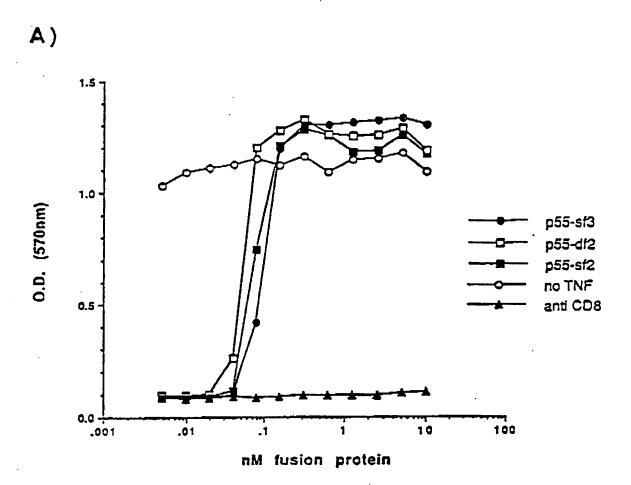


FIGURE 33 A

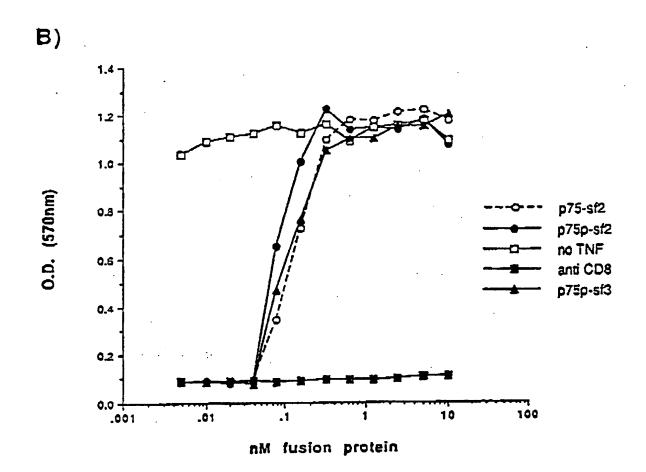


FIGURE 33 B

and the second s

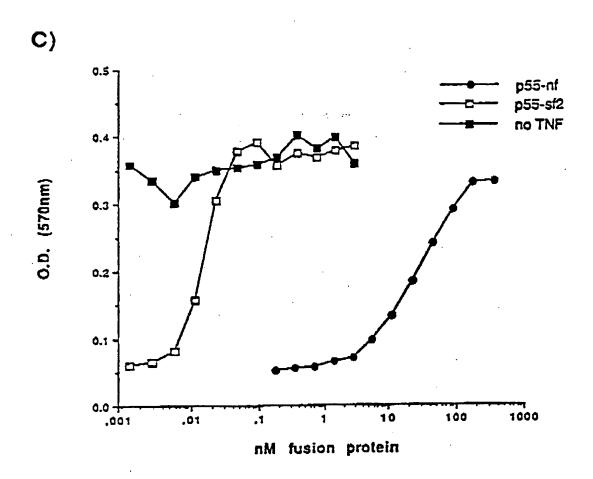


FIGURE 33 c

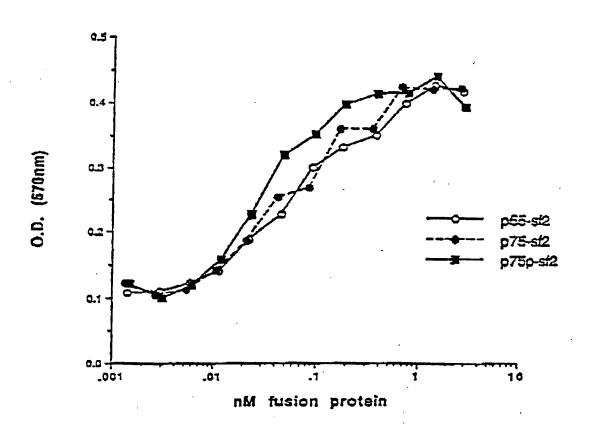
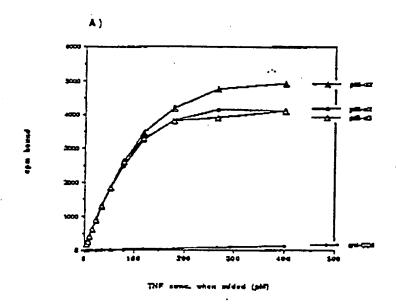
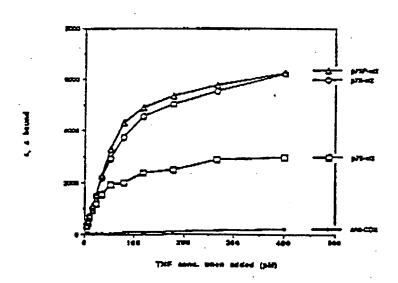


FIGURE 34

. <u>2</u>012

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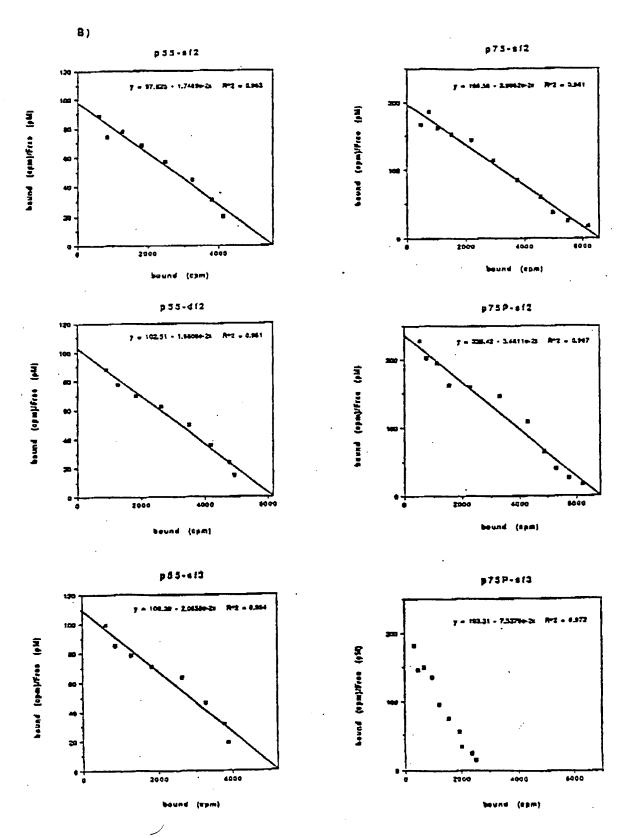




FIGURE

35 A

## Ø 192861



35 B